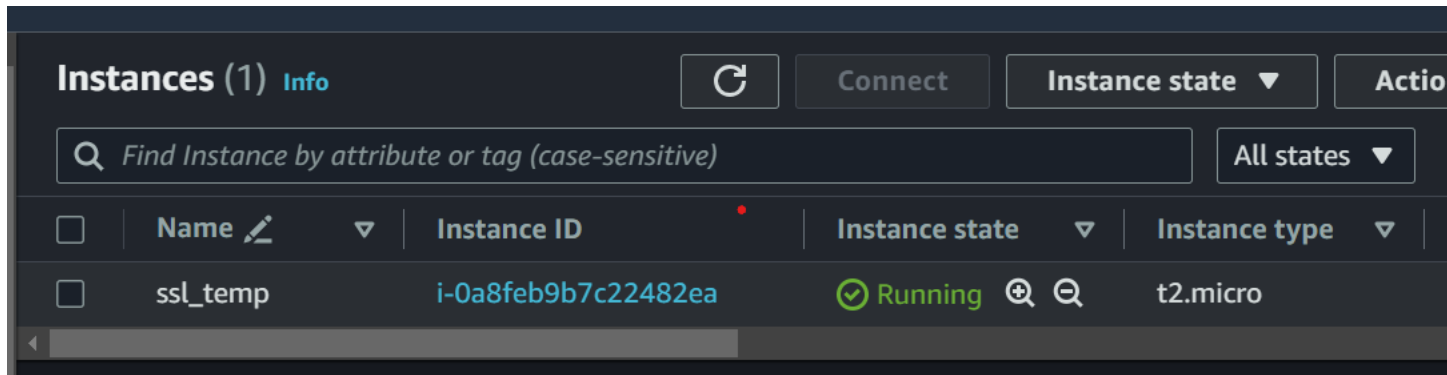


# AWS DOCUMENTATION

## SSL Certificate

Step I : Create the Instance.



Step II : go to browser and copy the link address for downloading free template then connect Instance and download it.

Step III : then Unzip it.

```
[ec2-user@ip-172-31-27-72 ~]$ curl -O https://www.free-css.com/assets/files/free-css-templates/download/page296/carvilla
% Total    % Received % Xferd Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left  Speed
100 2152k    100 2152k    0     0 1752k      0  0:00:01  0:00:01 --:--:-- 1752k
```

Step IV : Install the httpd ,start it.

```
[ec2-user@ip-172-31-27-72 ~]$ sudo yum install httpd
Last metadata expiration check: 0:05:53 ago on Sat Mar 23 08:15:58 2024.
Dependencies resolved.

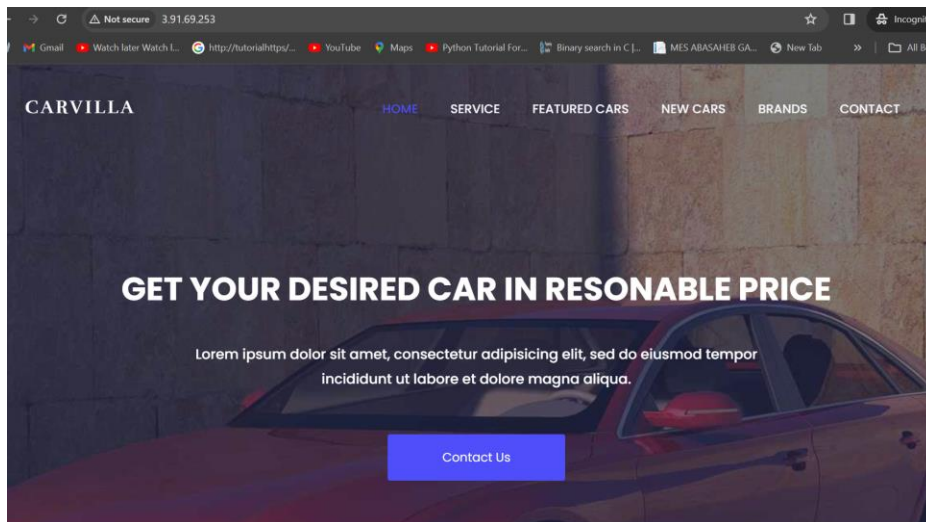
[ec2-user@ip-172-31-27-72 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-27-72 ~]$ ls
carvilla-v1.0  carvilla.zip
```

Step V : move the template file in /var/www/html/

```
[ec2-user@ip-172-31-27-72 ~]$ sudo mv carvilla-v1.0/* /var/www/html/
[ec2-user@ip-172-31-27-72 ~]$
```

Step VI : Copy the Instance IP and Paste it in another browser.

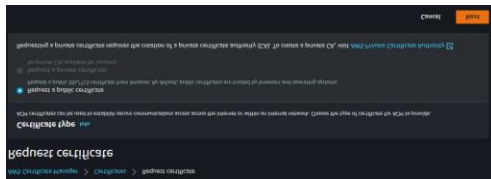
Step VII : See here, the hosted page properly but it is not secure.



Step VIII : go to certificate manager page, click on request a certificate.



Step VIII : request a public certificate and click on Next.



Step IX : then give the fully qualified domain name, DNS validation and click on Request.

**Request public certificate**

**Domain names** [info](#)  
Provide one or more domain names for your certificate.

Fully qualified domain name [info](#)  
  
[Add another name to this certificate](#)

You can add additional names to this certificate. For example, if you're requesting a certificate for "www.example.com", you might want to add the name "example.com" so that customers can reach your site by either name.

**Validation method** [info](#)  
Select a method for validating domain ownership.

☒ **DNS validation - recommended**  
Choose this option if you are authorized to modify the DNS configuration for the domains in your certificate request.

☐ **Email validation**  
Choose this option if you do not have permission or cannot obtain permission to modify the DNS configuration for the domains in your certificate request.

**Key algorithm** [info](#)  
Select an encryption algorithm. Some algorithms may not be supported by all AWS services.

☒ **RSA 2048**  
RSA is the most widely used key type.

☐ **ECDSA P-256**  
Equivalent to cryptographic strength to RSA 2048.

☐ **ECDSA P-384**  
Equivalent to cryptographic strength to RSA 3072.

**Tags** [info](#)  
To help you manage your resources, you can optionally assign your own metadata to each resource in the form of tags.

No tags associated with this resource.

[Add tag](#)  
You can add 50 more tags.

[Cancel](#) [Previous](#) [Request](#)

Step X : see here ,Status is Issued.

AWS Certificate Manager > Certificates

Certificates (1)

[Delete](#) [Manage expiry events](#) [Import](#) [Request](#)

<input type="checkbox"/>	Certificate ID	Domain name	Type	Status	In use	Renewal eligibility	Key algorithm
<input type="checkbox"/>	56702942-8b63-401c-8f64-ec59b7af2787	raedv.online	Amazon issued	Issued	No	Ineligible	RSA 2048

Step XI : now, we have to create record for this certificate in route 53.

**Create record** [info](#)

**Quick create record** [info](#)

**Record name** [info](#)  
  
[Add another record](#)

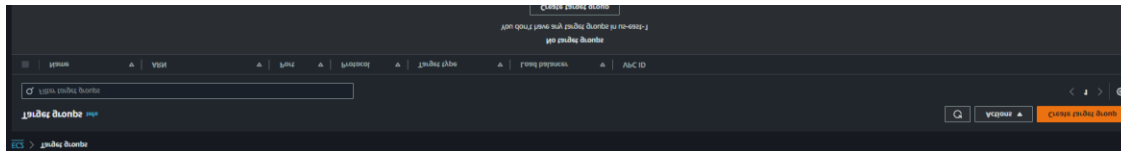
**Record type** [info](#)  
☐ **A**  
Choose this option if you are authorized to modify the DNS configuration for the domains in your certificate request.

**Record value** [info  
  
\[Add another record\]\(#\)](#)

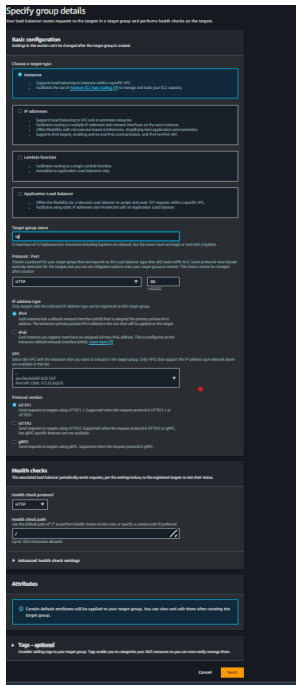
**Record TTL** [info](#)  
  
[Add another record](#)

[Cancel](#) [Create record](#)

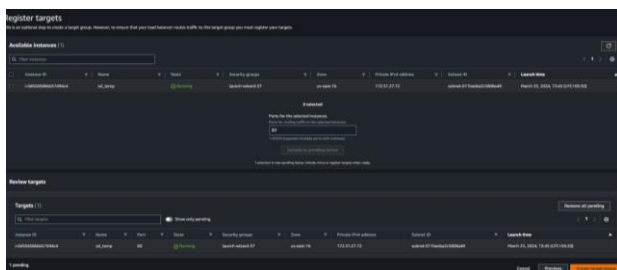
Step XII : then, go to EC2 service and click on create Target group.



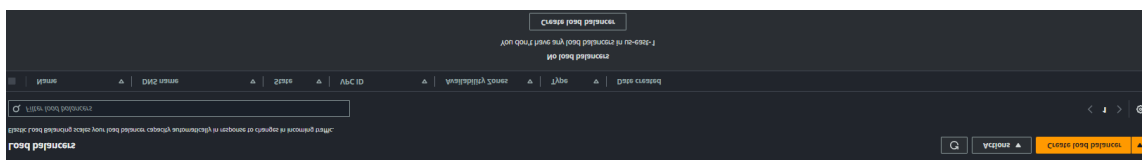
Step XIII : give the name and click on next.



Step XIV : register target, review target and and click on create Target group.



Step XV : then click on create Load balancer.



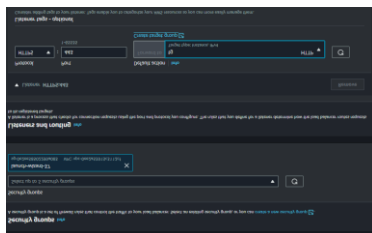
Step XVI : then create application Load balancer.



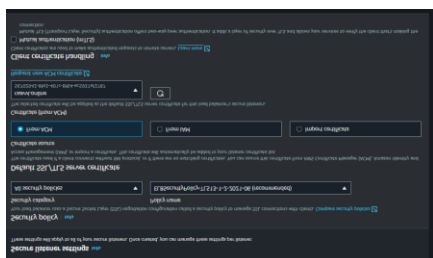
Step XVII : give the name to load balancer.



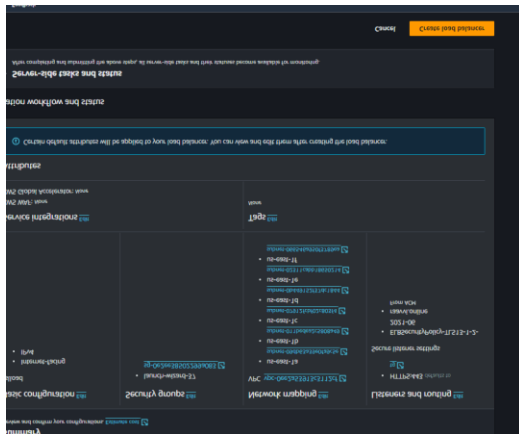
Step XVIII: then select the security group and add listener HTTPS and select target group.



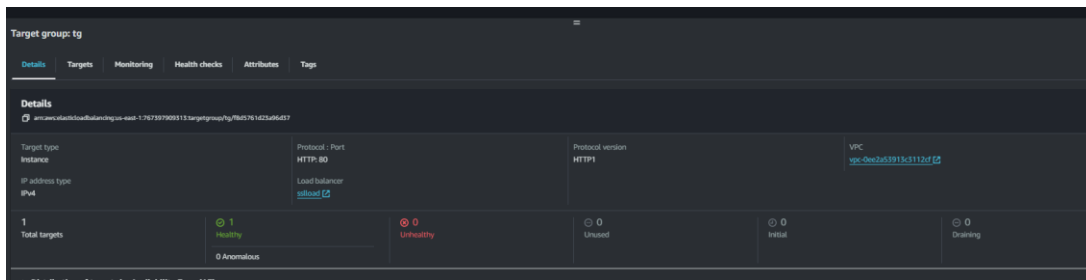
Step XIX : then fill the details of Security Policy.



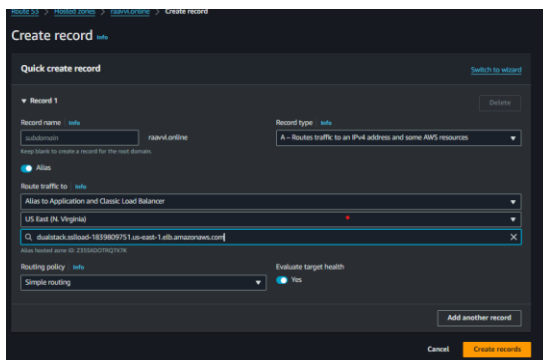
Step XX : And click on Create Load Balancer.



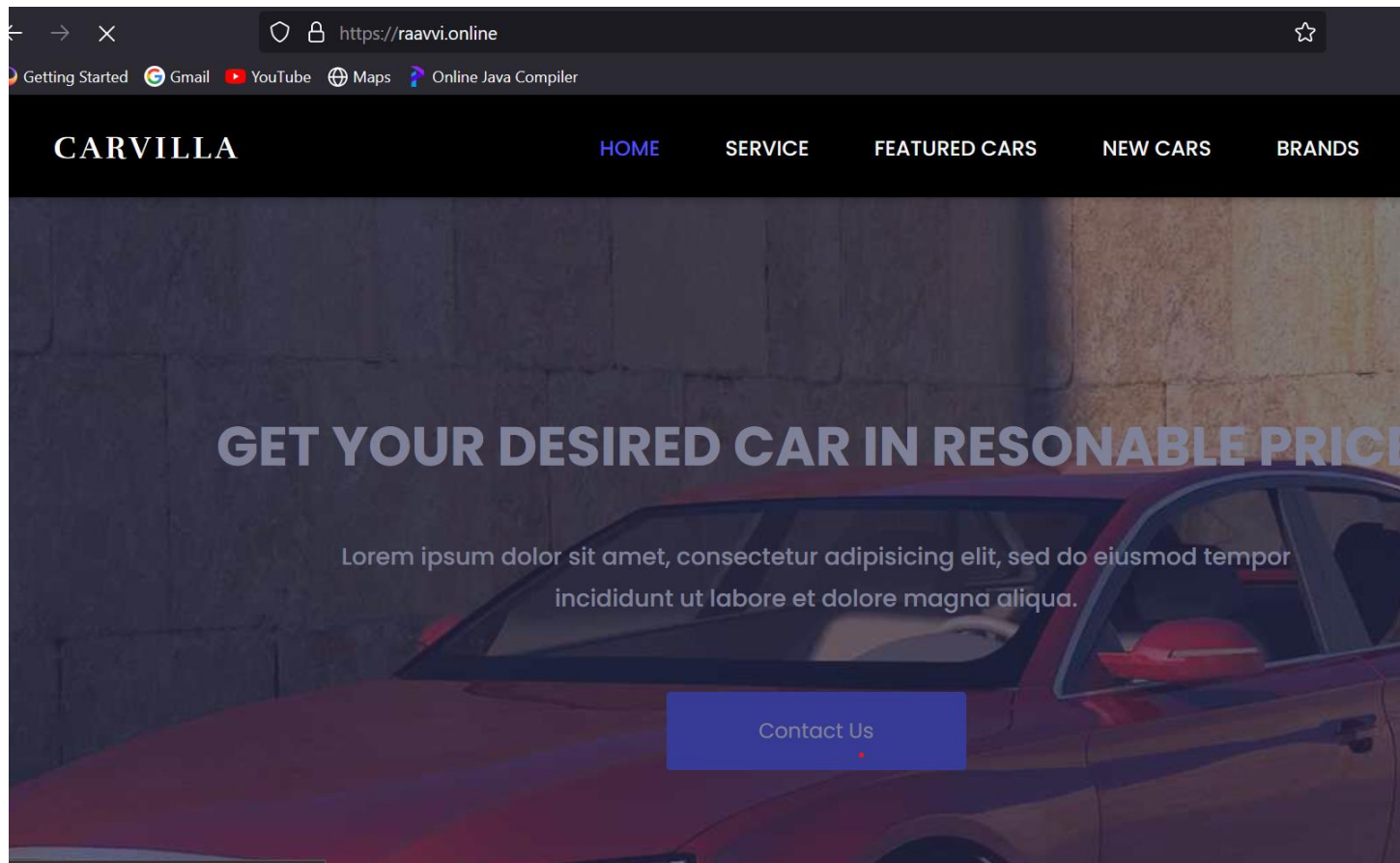
Step XXI : see here , after connect the load balancer to target group it is healthy now.



Step XXII : then, create record in Route 53 and turn on alias then select alias to Application and Classic Load Balancer, select region.



Step XXIII : now hit the domain name in browser and see here page is secure now.



## DNS SERVICE

Step I : Launch the Instance with adding security rule https .

Step II : then go to Route 53 Service and select the DNS firewall and click on create rule group.







Step VI : then connect the Instance and give command curl “Domain\_name”.see here, it showing failed to connect.

```
ec2-user@ip-172-31-43-131 ~]$ curl raavvi.online
curl: (7) Failed to connect to raavvi.online port 80 after 8 ms: Couldn't connect to server
ec2-user@ip-172-31-43-131 ~$
```